



IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Hideki UCHIDA et al.

Serial No. 10/582,779

Filed June 13, 2006

:

: **Mail Stop: PCT**

: Attorney Docket No. 2006\_0891A

:

COMPONENT MOUNTING HEAD,  
SUCTION NOZZLE, AND SUCTION NOZZLE  
MANUFACTURING METHOD

[Corresponding to PCT/JP2004/018705

Filed December 15, 2004]

---

**SUBMISSION OF ENGLISH VERSION OF IPER**

Commissioner for Patents

P.O. Box 1450


Alexandria, VA 22313-1450

Sir:

An English language version of the International Preliminary Examination Report is submitted herewith for the Examiner's consideration.

Respectfully submitted,

Hideki UCHIDA et al.

By 

Michael S. Huppert

Registration No. 40,268

Attorney for Applicants

MSH/kjf

Washington, D.C. 20006-1021

Telephone (202) 721-8200

Facsimile (202) 721-8250

January 25, 2007

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

From the INTERNATIONAL BUREAU

To:

KAWAMIYA, Osamu  
AOYAMA & PARTNERS, IMP Building, 3-7, Shiromi  
1-chome, Chuo-ku, Osaka-shi, Osaka  
5400001  
JAPON

Date of mailing (day/month/year)

14 September 2006 (14.09.2006)

Applicant's or agent's file reference

664786

**IMPORTANT NOTIFICATION**

International application No.

PCT/JP2004/018705

International filing date (day/month/year)

15 December 2004 (15.12.2004)

Applicant

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

**2. Transmittal of the copy of the translation to the designated or elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70

Facsimile No. +41 22 338 82 70

**TRANSLATION**

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>664786</b>	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. <b>PCT/JP2004/018705</b>	International filing date (day/month/year) <b>15.12.2004</b>	Priority date (day/month/year) <b>19.12.2003</b>
International Patent Classification (IPC) or national classification and IPC <b>B25J15/06</b>		
Applicant <b>MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.</b>		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_

\_\_\_\_\_ containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/018705

Box No. I

Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_ which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-28 \_\_\_\_\_ as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- nos. 6-9, 11, 12 \_\_\_\_\_ as originally filed/furnished
- nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19
- nos.\* 1-5, 10 \_\_\_\_\_ received by this Authority on 11.10.2005
- nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- sheets fig. 1-16 \_\_\_\_\_ as originally filed/furnished
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/018705

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)

Claims 1-12

YES

Claims

NO

Inventive step (IS)

Claims 2, 3, 6, 7, 10-12

YES

Claims 1, 4, 5, 8, 9

NO

Industrial applicability (IA)

Claims 1-12

YES

Claims

NO

## 2. Citations and explanations (Rule 70.7)

Document 1: JP 5-275513 A (Kyocera Corp.), 22 October 1993

Document 2: JP 4-3500 A (Mitsubishi Electric Corp.), 08 January 1992

Document 3: JP 2002-307359 A (Matsushita Electric Industrial Co., Ltd.), 23 October 2002

## Claim 1

Document 2 cited in the international search report discloses an adsorption nozzle equipped with an adsorption hole section, which comprises a hole with a circular cross section and four enlarged parts where a portion of the end of said hole has been enlarged in the radial direction.

The modifications to the invention disclosed in document 2, whereby the number of the abovementioned enlarged parts is increased by one to a total of five enlarged parts and said enlarged parts are disposed in a uniform arrangement, are merely arbitrary design matters that could have been configured by a person skilled in the art, as necessary.

Consequently, the invention set forth in claim 1 does not involve an inventive step.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/018705

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
-----------	--

Claims 4, 5, 8 and 9

Document 3 cited in the international search report discloses an adsorption nozzle equipped with a protruding member and an energizing member for constantly energizing said protruding member in the direction towards the protrusion site.

The inventions disclosed in documents 2 and 3 are both associated with the same technical field in that they both pertain to adsorption, and thus it would have been easy for a person skilled in the art to conceive of combining the invention disclosed in document 2 with the invention disclosed in document 3.

Furthermore, configurations wherein the part of an adsorption device that comes into contact with a work is formed from a semiconductor ceramic material are well known, as disclosed in document 1 cited in the international search report; therefore, when combining the inventions disclosed in documents 2 and 3 it would merely be a simple design matter to configure the abovementioned protruding member from a semiconductor ceramic material.

Consequently, the inventions set forth in claims 4, 5, 8 and 9 do not involve an inventive step.